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SPECIFICATIONS

The installation and application of all materials shall be in accordance with the current printed manufacturers instructions and recommendations.

METAL STUD AND GYPSUM WALLBOARD PARTITIONS

Metal studs shall be roll formed channel type sections fabricated of U.S.S. No. 25 gauge, galvanized sheet steel, 2 1/2 inches wide and in the longest one piece lengths available.

Ceiling and floor runners shall be roll formed channel type sections fabricated of U.S.S. No. 25 gauge, galvanized steel. Runners shall be in lengths of 10'-0".

Gypsum wallboard shall be grade "X" fire retardant wallboard 48 inches wide and of thickness indicated on the Contract Drawings and shall be of uniform quality conforming to Federal Specification SS-L-30 and to ASTM C 36. Wallboard shall be furnished and installed in the longest lengths available so that wallboard panels extend vertically in one piece from floor to ceiling and/or slab, beams or decks above, as required.

Wallboard used in fire rated partitions shall be delivered to the construction site bearing Underwriters Laboratory certification and N.Y.C. Board of Standards and Appeals Calendar numbers.

Sound Attenuation Blankets shall be compressible mineral fiber ("Thermalfiber" as manufactured by U.S. Gypsum Co. or approved equal.)

Joint treatment products shall conform to ASTM C474 and C475. Taping and spackling shall be a three (3) coat application.

Screws for fastening wallboard to studs shall be bugle type Philips head screws specifically manufactured for power tool installation.

Corner beads shall be Dur-A-Bead, US6 corner reinforcement or approved equal.

Trim members shall be fabricated of U.S.S. No 25 gauge galvanized steel and shall include corner reinforcement and casing type edge trim. Corner and edge trim members shall be in single lengths.

Wall Base

Wall base shall be 4" high, rubber, and of a type and color to match existing. Wall base shall be applied against the wall with an approved type cement adhesive using cement 1/4" below top of base. Adhesive for installation of base shall be supplied by the Contractor. Vertical joints shall be kept to a minimum with a minimum distance from a joint to a corner equal to 1' - 0". Replace as required damaged and/or missing base in the existing computer room.

WALL METAL DOORS AND FRAMES

Frames: shall be installed plumb, straight, and true with horizontal lines level and all vertical lines plumb. Frames shall be secured rigidly in place and shall be anchored to the floors, jambs and heads in an approved manner. All frames shall be braced until adjacent construction has been completed and has attained sufficient strength to maintain the frame in position.

Installation of door frames shall include all spacer clips, shims, channel lintels and sub-frames as shown, and all neoprene gaskets.

Doors: shall be installed plumb and true with their frames and shall operate freely without binding.

Erection: all damaged areas in the shop coat, exposed surfaces of bolts, bolt heads, nuts and washers, and all field welds., if necessary, and unpainted areas adjacent to field shall be painted with the same paint used in shop coating.

Doors and frames: shall be supplied by the contractor shall be similar and equal in every respect to those that are furnished by the Authority.

HARDWARE

All hardware shall conform with section 4.13 of the A.D.A. Finish hardware installation shall conform to the manufacturers requirements. Installation shall be in a neat and skilled manner, with all components operating properly. All knobs, handles, pulls and other exposed items, shall be suitably wrapped and protected as soon as they have been installed and such protection shall remain until the acceptance of the work.

Bolts - Stanley FBB 179 x 4-1/2" x 4-1/2"
Nuts - Lockett - Corbin #125-8554
Latch Set - Corbin #833-410 (LEVER SET)
Closer - Corbin #500-S-3
Flush Bolts - Corbin #2846, 1-12" lg., 1-30 lg.
Dormer - Corbin #373-1/2
Coordinator - Von Duprin #1237
Silencers - Corbin #33
Aluminum Saddles - Zero Weatherstripping Co., Inc. #1654 or #633

ACCESS FLOOR SYSTEM

GENERAL REQUIREMENTS

Work of this Section, as shown or specified, shall be in accordance with the requirements of the Contract Documents.

WORK INCLUDED

Work of this Section includes all labor, materials, equipment and services necessary to complete the access floor systems as shown on the drawings and specified herein.

RELATED WORK

Carpet Finish:

GROUND: Connection to ground of access floor understructure

SYSTEM

Structural Performance: Provide manufacturer's standard access flooring system which, when installed, complies with the following minimum requirements for structural performance:

Floor Panels: units, including those with cutouts, capable of supporting loads of type and magnitude indicated below:

Concentrated Load: 1,600 pounds on one square inch at the center with a top surface deflection not to exceed 1/500 of the span.

Uniform Load: 400 pounds per square foot with a maximum surface deflection not to exceed 1/500 of the span.

Rolling Load: panels shall withstand a rolling load of 800 pounds applied through a hard rubber surfaced wheel 6" dia. x 1 1/2" wide for 10,000 cycles over the same path with no damage to the panel surface. Permanent set at the conclusion of the test shall not exceed .010". Top surface deformation in the path of the wheel shall not exceed .005".

Pedestals: Shall Support a 7,000 pound axial load.

Ultimate Center Load: 2,600 pounds

Electrical Resistance: of System: Provide manufacturer's standard access flooring system which, when installed, has the following electrical resistance characteristics:

- Static Control Floor Covering Resistance: not less than 500,000 ohms nor more than 20,000 mega-ohms measured across surface of floor covering through panel to understructure by test method of conductive flooring specified in NFPA 56A.
- Panels: shall have a maximum electrical resistance of 1 ohm or less from the top edge of the panel (less surface covering and pedestal pad) to the understructure.
- Heat transmission: Bottom surface temperature exposure to 1600°F for fifteen minutes shall not increase the top surface temperature more than 150° above the ambient temperature.

ASTM E-84: flame spread of 0 and smoke development of 0 (less surface covering).

QUALITY ASSURANCE

Installer qualifications: firm who is approved by the access flooring manufacturer and who has successfully installed access flooring systems of a scope similar to this project.

NFPA Standard: provide access flooring which, when installed, complies with requirements of NFPA No. 75 for raised floors.

SUBMITTALS

Product Data: submit manufacturer's technical data and installation instructions for each type of access flooring required; include manufacturer's maintenance instructions.

Shop Drawings: submit shop drawings showing complete layout of access flooring based on field-verified dimensions; include dimensional relationships to adjoining work. Include full size details, with descriptive notes indicating materials, finishes, fasteners, typical and special edge conditions, accessories understructure and other data to permit a full evaluation of entire access flooring system. Drawings should also include floor panel layout including ramp, step, and railing location.

Samples: submit samples of each exposed metal finish and each type and color of floor covering and accessory.

Certification and test Data: submit manufacturer's certification including supporting laboratory test data that access flooring provided complies with indicated performance requirements.

PRODUCT HANDLING

Protection: Use all means necessary to protect the materials of this Section before, during and after installation and to protect the installed work and materials of all other trades.

Replacements: In the event of damage, immediately make all repairs and replacements necessary.

PRODUCTS

Acceptable manufacturers: C-tec, inc. Grand Rapids, MI. Substitutions considered providing design criteria is are met or exceeded.

Systems: for office areas provide "stringerless" system made by system shall be laterally stable in all directions. Provide corner pedestal pad.

MATERIALS & FABRICATION

Standard Field Panels: provide tec-crete panels from C-tec, easily removed without disturbing adjacent panels or understructure by or portable lifting device free of exposed metal edges in installed panels covering in place.

Nominal Size: 24" x 24" unless otherwise indicated. Fabricate panels required plus or minus 0.005" with a squareness tolerance, expressed difference between diagonal measurements from corner to corner 0.015" and with a flatness tolerance of plus or minus 0.015" measured on top of panel.

Standard Floor Panels: Panels shall be 1 1/8" deep electro-galvanized enclosure; 24 inches square, filled with lightweight high-strength panel perimeter shall be manufactured to receive the pedestal head projections. Each panel shall accept a flush fit metal fastener which fastens each panel corner to the pedestal head. Adjust and replace panels in the present computer room as required

Ramp: ramp shall be designed to carry the same loads as the access floor extinguishing vinyl runner for a non skid surface.

Handrail: Architectural handrail of the manufacturers standard design floor shall be furnished and installed as called for on the drawings.

Facia: Aluminum facia shall be furnished and installed where access ramp area as necessary to enclose the underfloor area.

Floor Finish: floor panel finish to be 1/16" thick high pressure coating to NEMA 1d3, high wear type, or grade hw120, fabricated on panel face within plastic by Micarta and approved by the City of New York 65-82-M-Vol.11

Perimeter edging: shall match existing in like and kind.

Pedestals: assemblies shall comply with the City of New York, 1991

Preparation: take field measurements prior to preparation of shop drawings to ensure proper fitting of work. Indicate final measurements on drawings.

Installation: install floor system and accessories under supervision of manufacturer's authorized representative to ensure rigid, firm installation without vibration, rocking, rattles, squeaks, and other unacceptable performance. Layout floor panel installation to keep the number of cut panels at the perimeter to a minimum. Scribe panel. Assemblies at perimeter to fit with no voids Greater than 1/8" where panels abut vertical stringers. Locate each pedestal and complete any necessary subfloor preparation clean the subfloor of all dust, dirt and construction debris before installation. Set pedestals in adhesive as recommended by the manufacturer provide full bearing of the pedestal base on the subfloor. Secure grid members where applicable to pedestal heads in accordance with manufacturer's instructions. Secure panels to pedestals where applicable in accordance with manufacturer's instructions. Accurately scribe and fit vertical closures to subfloor and adjacent walls. Set in mastic and seal if required for plenum effect. Thoroughly vacuum clean the subfloor area as installation of floor panels. Extend cleaning under installed panels as far as possible. Cutting and trimming or other dirt-or-debris producing operations permitted in the rooms where the floor is being installed. Perform cutting and trimming or other dirt-or-debris producing operations remotely as possible from installation area and in a manner to prevent contamination of subfloor surfaces under sections of access floor have been installed. Level installed access floor to within 0.10" of true level over the entire area within 0.060" in any 10' distance.

Cleaning, Protection & Final Adjustments: after completion of installation vacuum clean the entire floor system and cover with continuous sheet of paper or plastic. Maintain and repair damages to protective covering to be removed by the engineer. Replace access floor panels which are chipped, broken, stained, or otherwise damaged, or do not conform to specified requirements.

Extra Stock: Deliver stock of maintenance material to Owner. Furnish material matching products installed, packaged with protective covering and identified with appropriate labels. Standard Field Panels and Understructure: Furnish quantity of standard field panels and the understructure components to support them equal to 1.0% of installed.

Acceptance: General Contractor or Owner shall accept the completion of the work in whole or in part prior to allowing other trades to perform work on the installed access floor. General Contractor shall suitably protect the accepted access floor.